

1/11

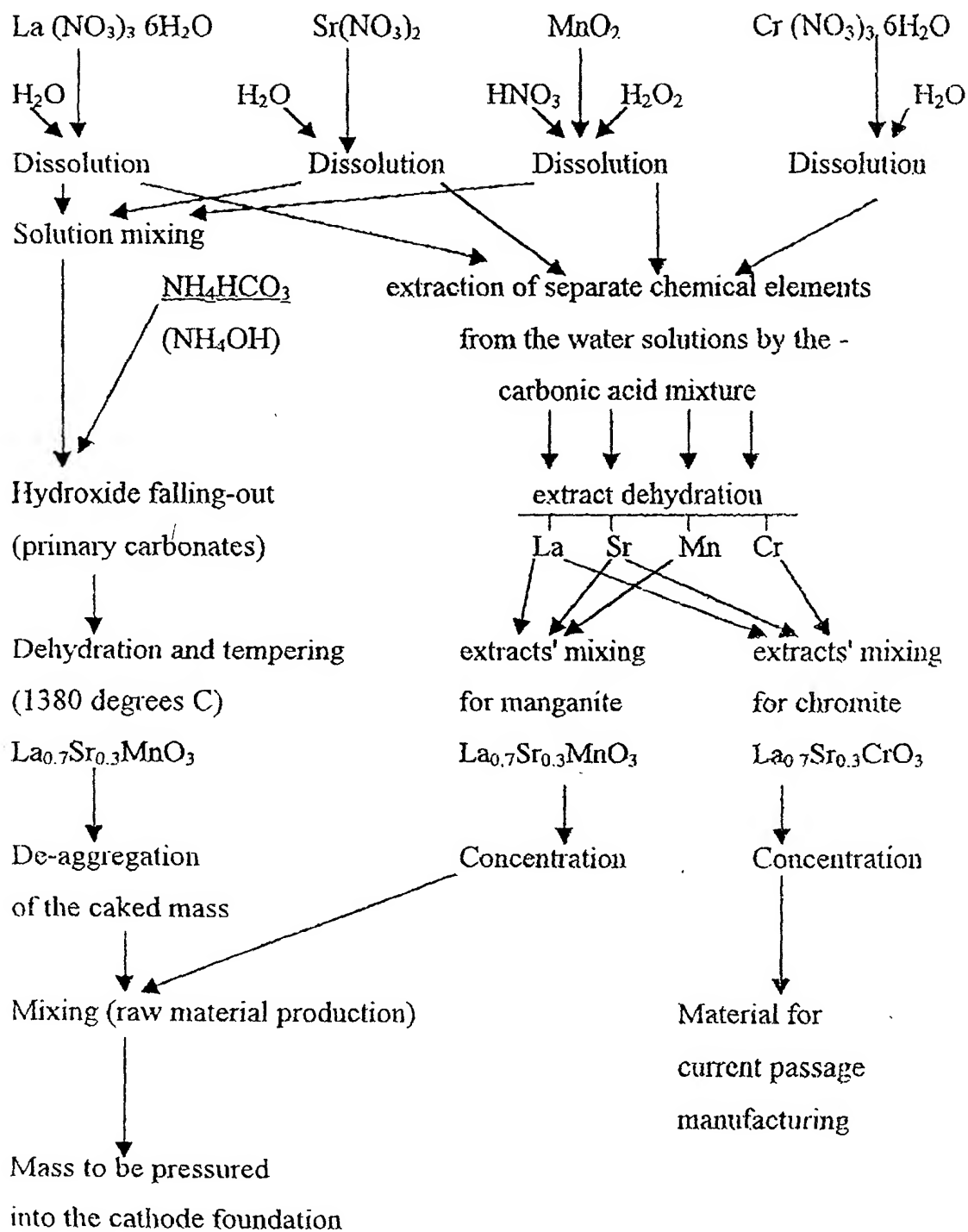


Fig. 1

2/11

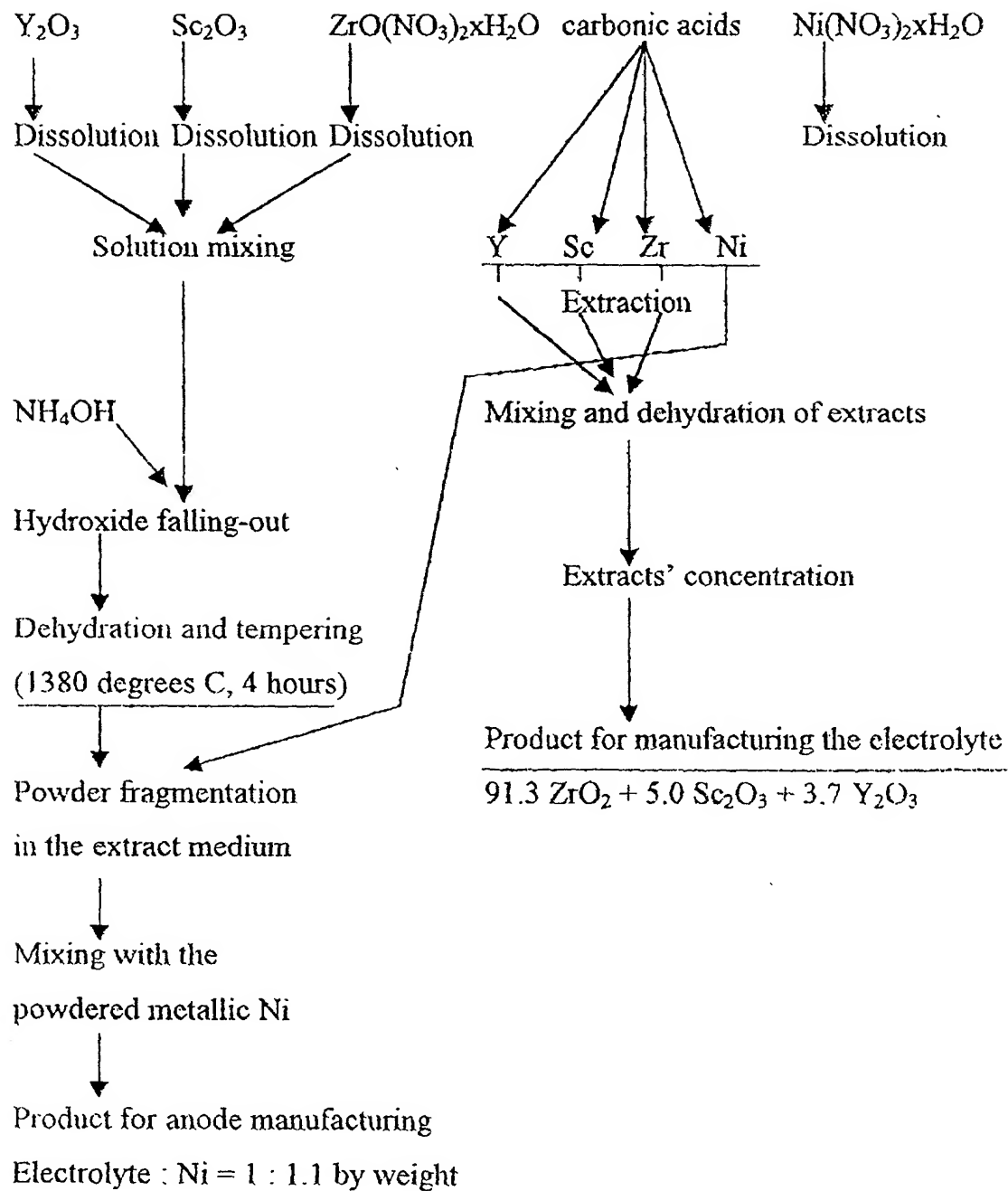


Fig. 2

3/11

Forming the tubular cathode
by the hydrostatic pressuring

Burning out the binding agent, caking

$T \sim 1350$ degrees C

Manufacturing the interface layer and current passage

Mixture of Cr, La, St carboxilates

Manufacturing the electrolyte

Mixture of Ce, Sm/Gd, Zr, Y, Sc carboxilates

Manufacturing the anode

Anode material YSZ GSC/ Ni_{met} Co_{met}

Ni or Co carboxilates

Manufacturing the electrical insulating
layer

Material for electrical insulating
layer

Thermal treatment

Mg Al carboxilates

$(MgAl_2O_4)$ (YSZ)

$T \sim 1250$ degrees C

A single fuel cell

Fig. 3

23

4/11

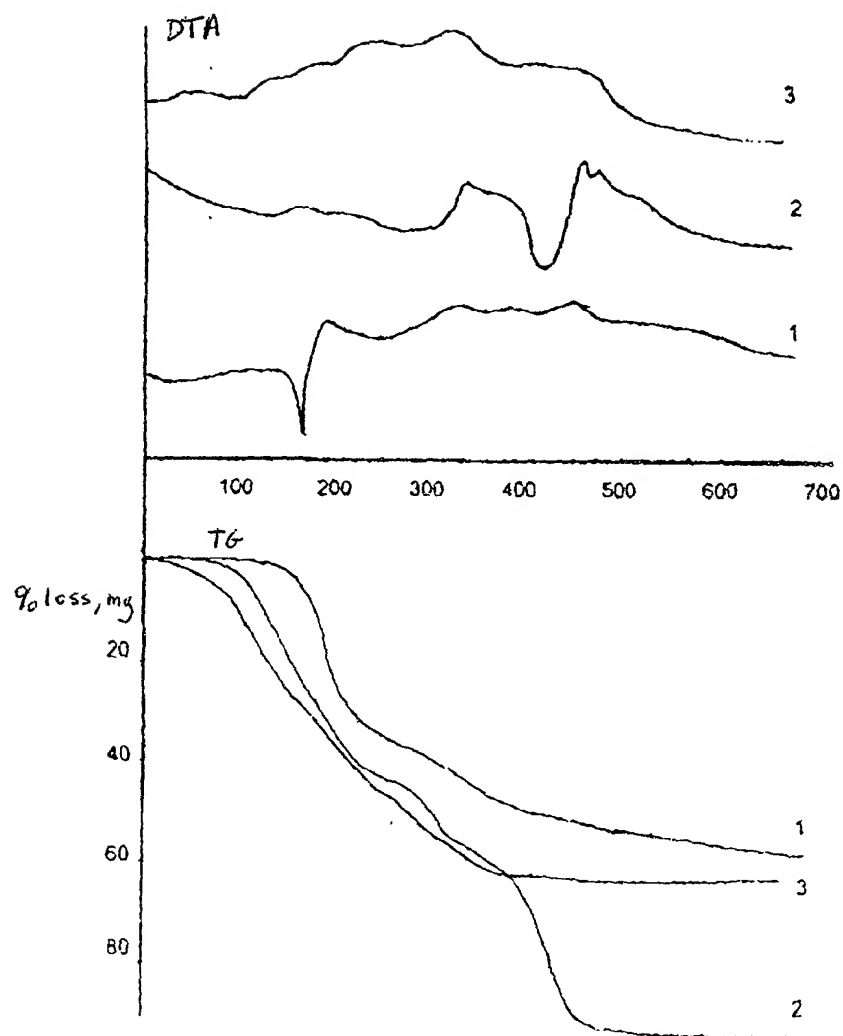


Fig. 4.

5/11

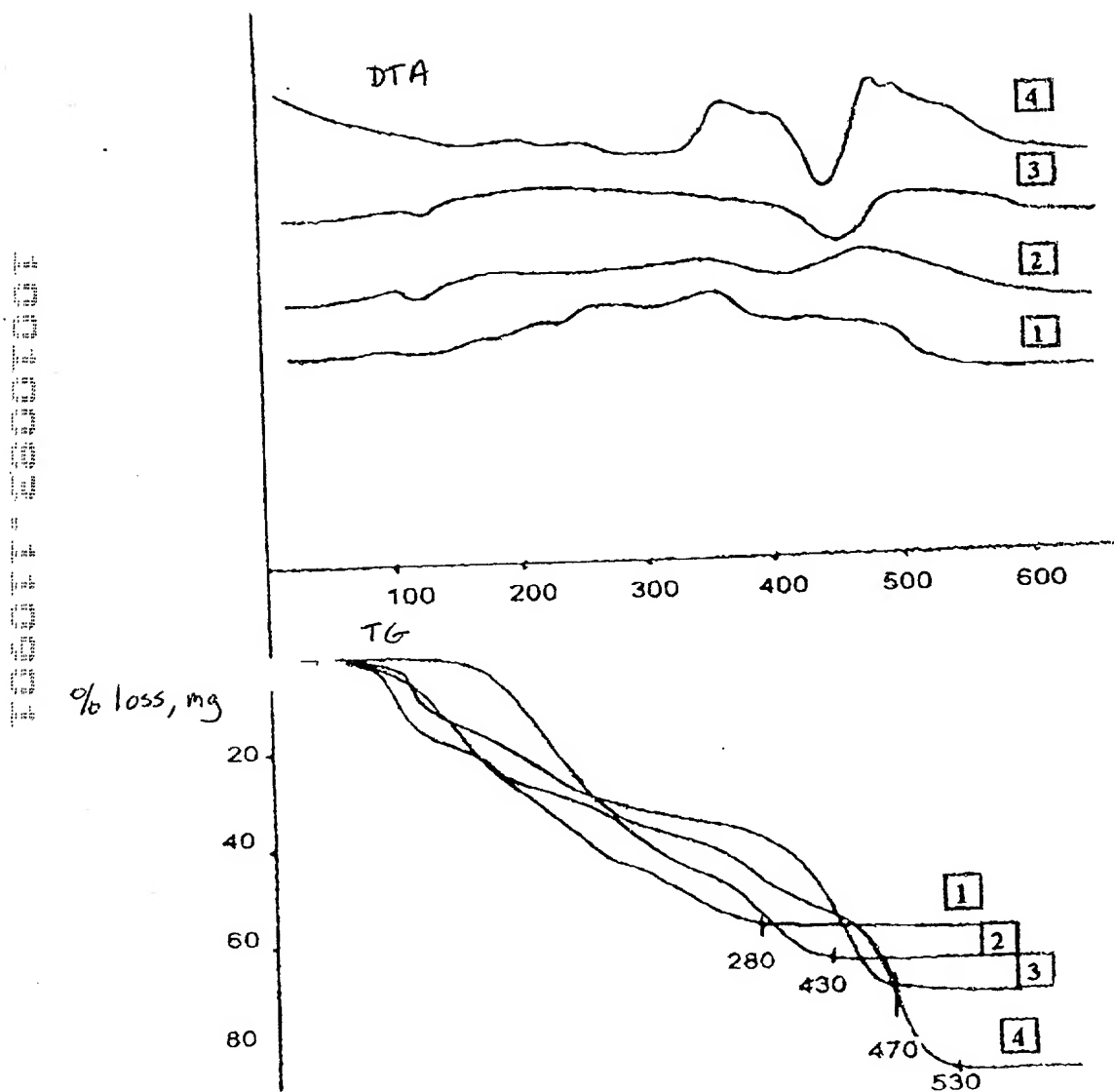


Fig. 5.

6/11



Fig. 6.

76

7/11

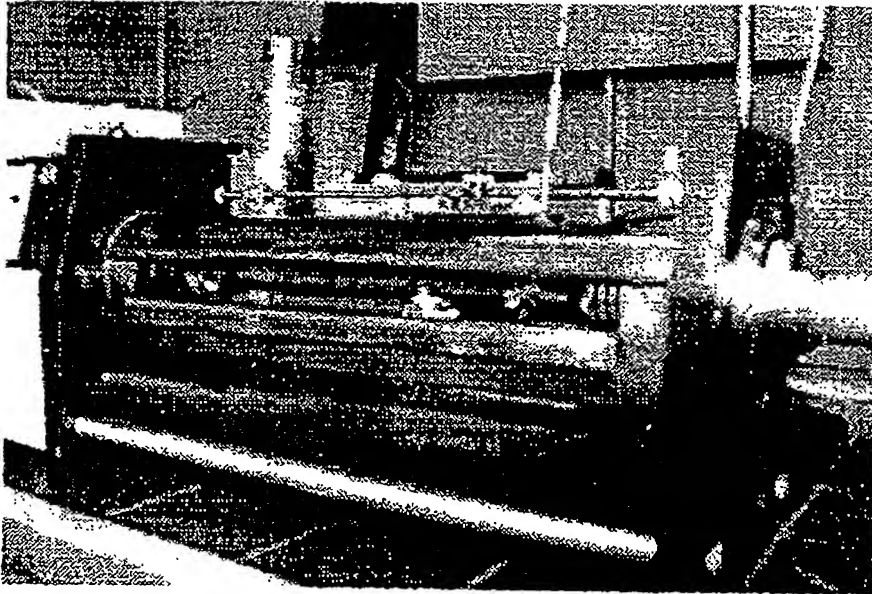


Fig. 7.

77

8/11

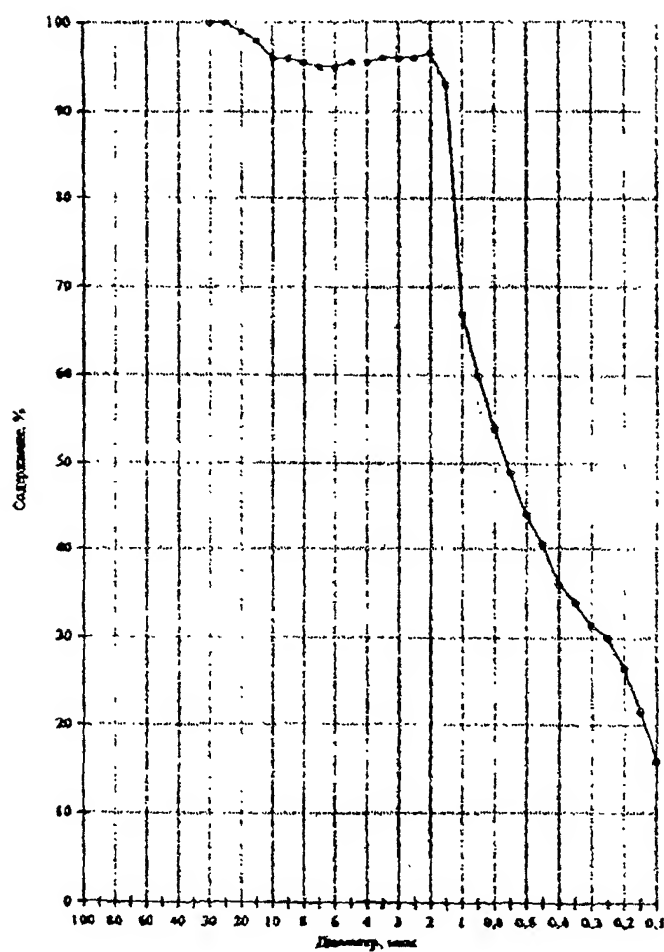


Fig. 8.

79

10/11

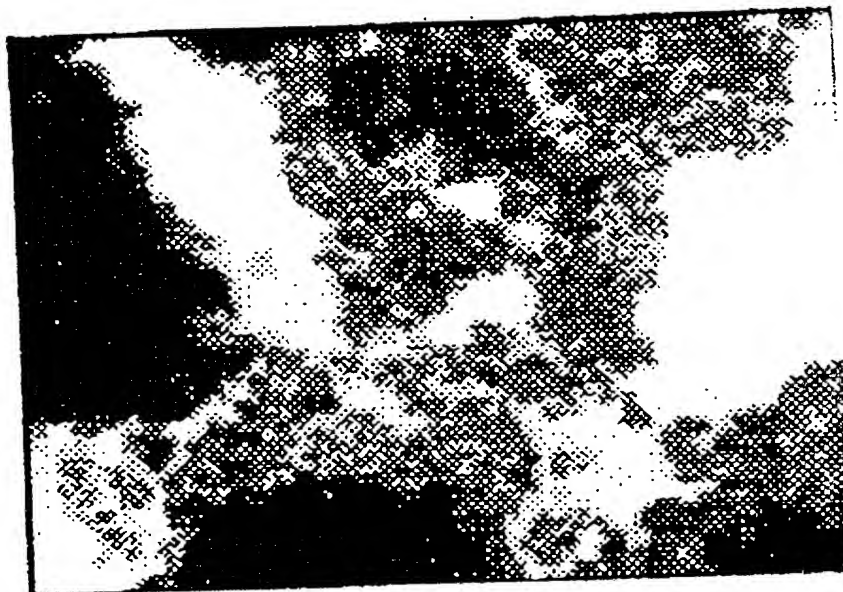


Fig. 10.

11/11

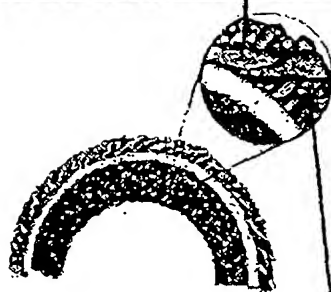
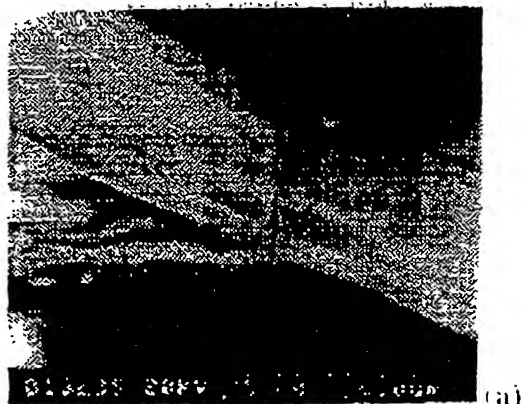


Fig. 11.